

# SOME POINTS TO REMEMBER:

(%) ALL LEAF FORMS ON THE PRECEEDING SHEET (DICOTS: WHICH IS CHARACTERISTIC FOR A GIVEN SPECIES: TEND TO HAVE A DEFINITE PATTERN OF ARRANGEMENT

-OPPOSITE -WHORLED ALTERNATE FOUND ON BOTH HERBACEOUS AND WOODY SPECIES

-ROSETTE -CLUMPING CONFINED MOSTLY TO HERBACEOUS SPECIES

SIMPLE AND COMPOUND LEAVES PRESENT AT THE POINT OF ATTACHMENT OF LEAF LOOK FOR AXILLARY BUDS - THESE ARE ALWAYS TO STEM -- HELPS IN DISTINGUISHING BETWEEN

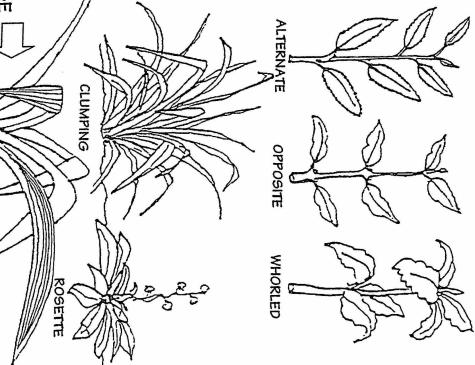
SOMETIMES THE AXILLARY BUDS ARE TINY AND HARD TO LOCATE -- IF THIS IS THE CASE, LOOK FOR THE PRESENCE OF <u>LEAF SCARS</u> ALONG THE STEM

MONOCOT LEAVES: DICOTS HAVE THE SMALLEST VEINS ("NERVES") OF A LEAF OR LEAFLET ARRANGED IN A "NETTED" PATTERN

(端) HAVE THE SMALLEST VEINS ARRANGED IN PARALLEL PATTERN (EVEN THOUGH OVERALL LEAF FORM MAY BE FAN-SHAPED, FLESHY, ETC.

(℁) ARE PREDOMINANTLY ELONGATED, GRASS-LIKE, SWORD-LIKE, % % ARE PREDOMINANTLY ARRANGED IN CLUMPING PATTERN FROM A BASAL UNDERGROUND STEM (OR STEMS), OR HERBACEOUS ST

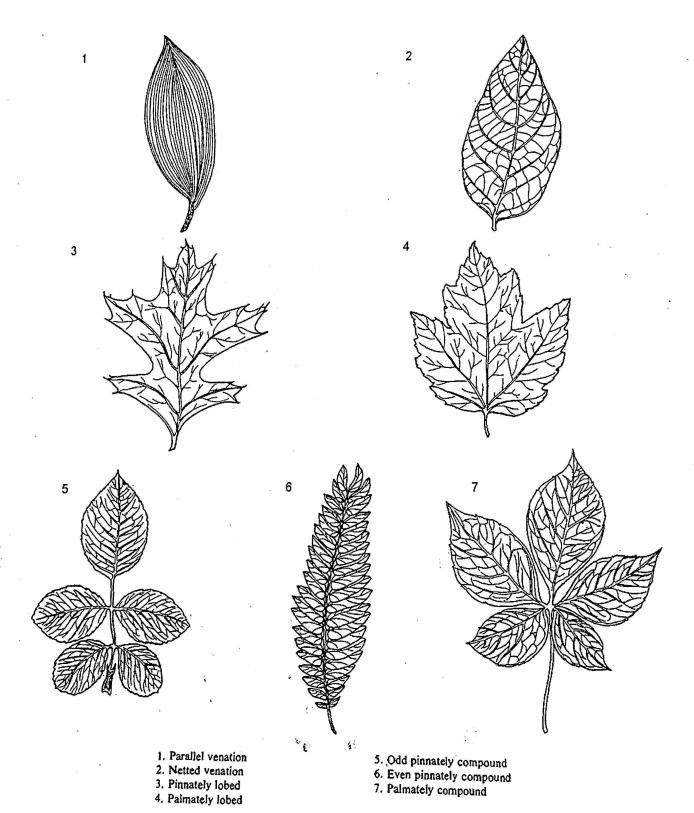
ि ARE MOSTLY NEEDLE-LIKE OR SCALE-LIKE, WHORLED (SOMETIMES ALTERNATE CONIFER LEAVES: OR STRAP-LIKE IN SHAPE AND LACK DEFINITE PETIOLES OR OPPOSITE) ON WOODY STEMS







# BASIC LEAF FORMS



## **LEAF SHAPES**



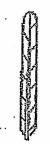
Elliptic



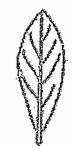
Filiform



Lanceolate



Linear



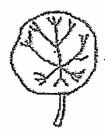
**Oblanceolate** 



**Oblong** 



Obovate



Orbicular



**Ovate** 



Reniform or Kidney



Rhomboid



Spatulate

## **LEAF APICES**



Acuminate



Acute



Cuspidate



**Emarginate** 



Mucronate ·



Obtuse

## LEAF BASES



· Auriculate



Cordate



Cuneate



Decurrent



Oblique



Obtuse



Peltate



Sagittate

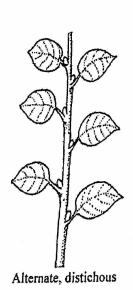


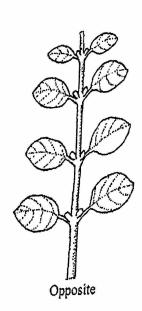
Sheathing

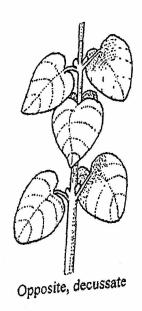


Truncate



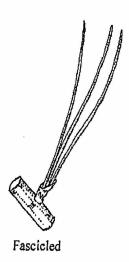








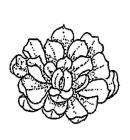










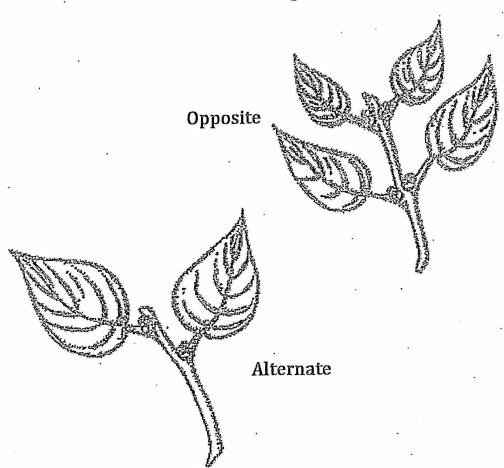


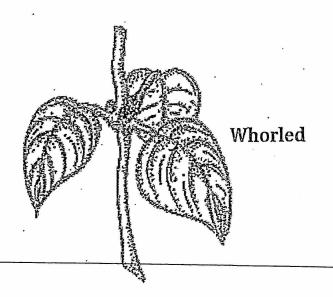


Equitant in cross section

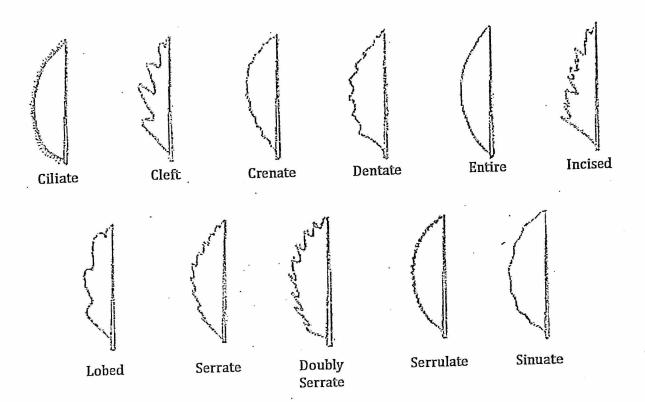
Rosulate, two examples

# Leaf Arrangement

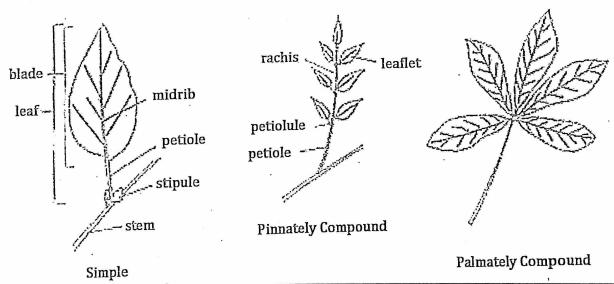




# LEAF MARGINS

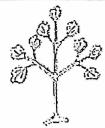


## LEAF TYPE



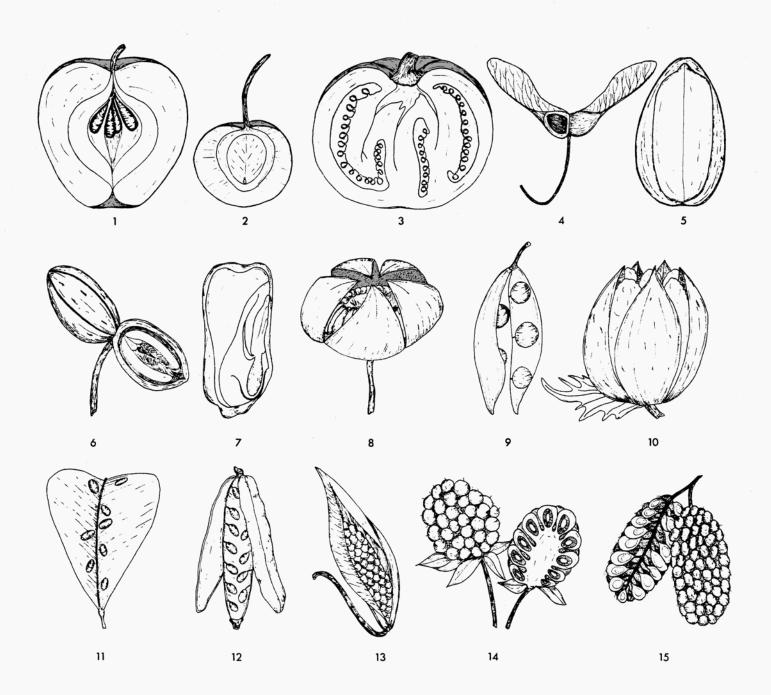






Riternate

# FRUIT TYPES



#### Simple Fruit

#### Fleshy

- 1. Pome (apple)
- 2. Drupe (cherry)
- 3. Berry (tomato)

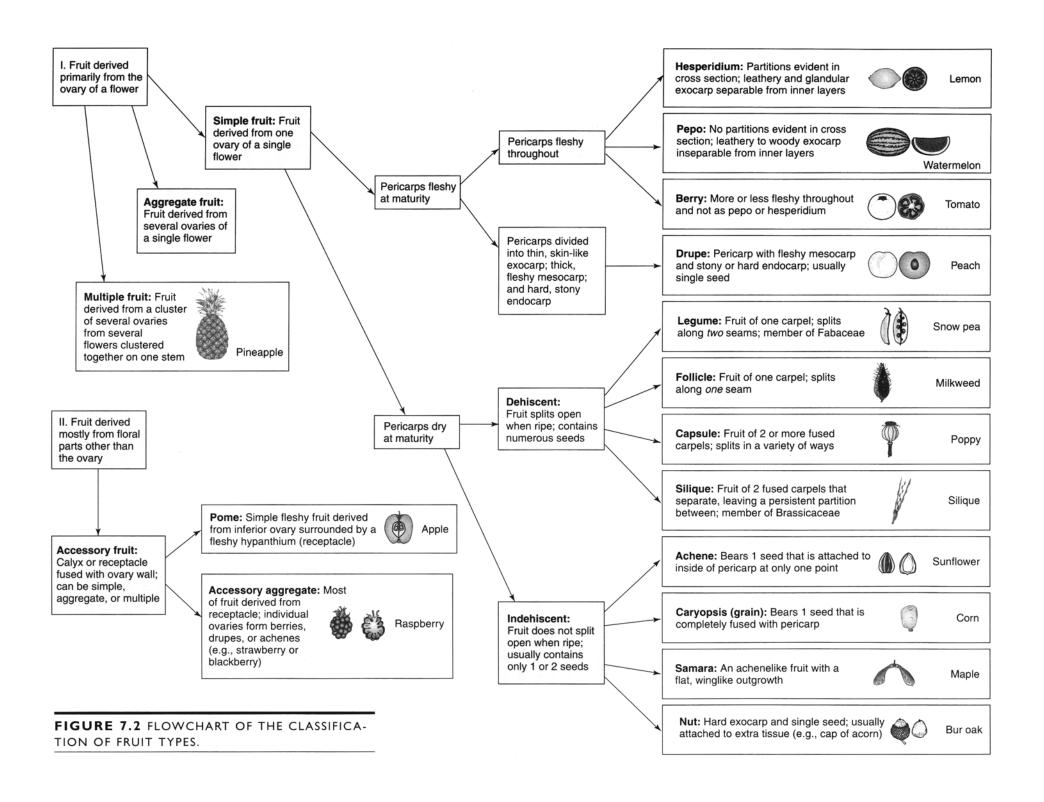
#### Dry, indehiscent

- 4. Samara (maple)
  5. Achene (sunflower)
  6. Nut (pecan)
- 7. Grain (corn)
- 8. Schizocarp (geranium)

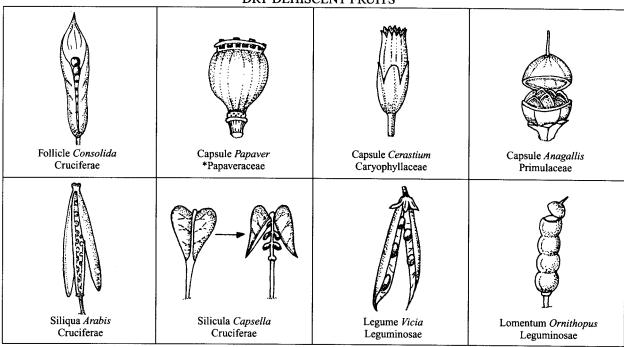
#### Simple Fruit

#### Dry, dehiscent

- 9. Legume (pea)
  10. Capsule (cotton)
- 11. Silicle (shepherd's purse)
- 12. Silique (mustard)
- 13. Follicle (milkweed)
- 14. Aggregate fruit (blackberry)
- 15. Multiple fruit (mulberry)



#### DRY DEHISCENT FRUITS



#### DRY INDEHISCENT FRUITS

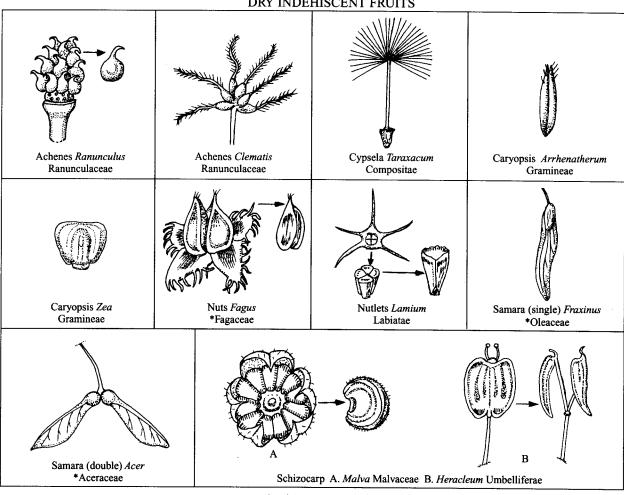
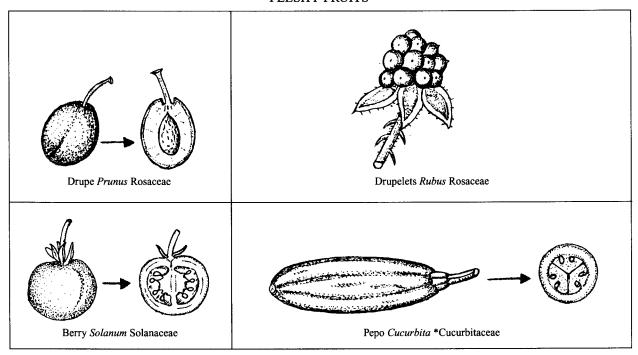


Fig. 25. Fruits (1).

#### **FLESHY FRUITS**



#### FALSE FRUITS

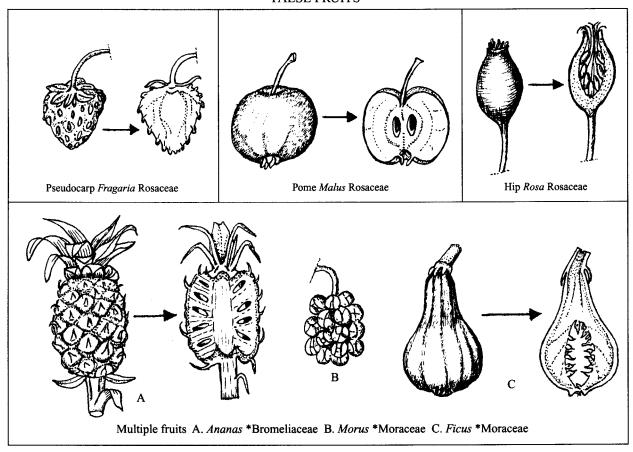
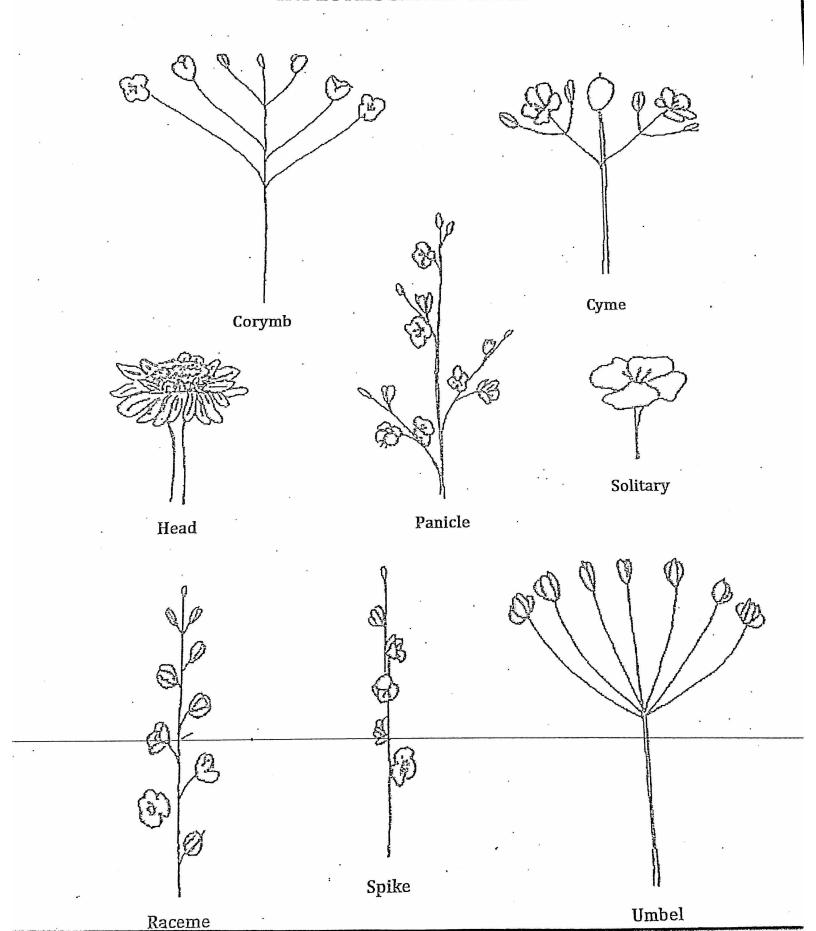
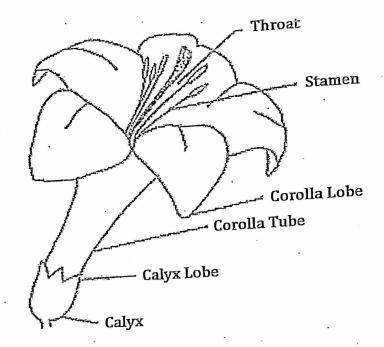


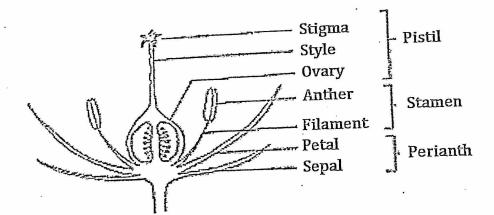
Fig. 25. Fruits (2).

# INFLORESCENCE TYPES



# FLOWER PARTS

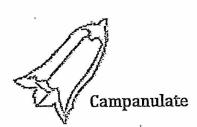




### **COROLLA TYPES**

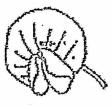


Bilabiate

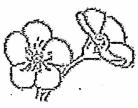




Funnelform



Papilionaceous



Rotate



